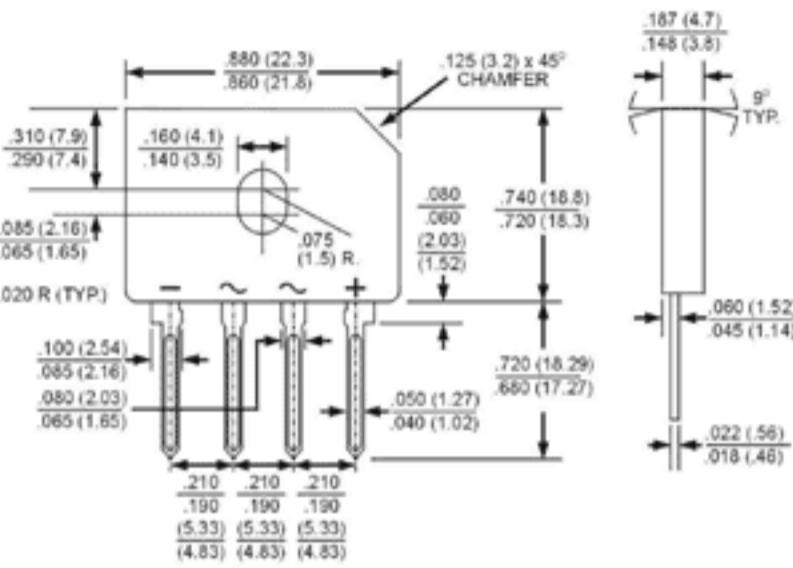


SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts
 FORWARD CURRENT - 8.0 Amperes

FEATURES

- Surge overload rating - 200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94V-0
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _D C	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T _J =100°C (without heatsink)	I(AV)				8.0	3.2			A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}				200				A
Maximum Forward Voltage at 4.0A DC	V _F				1.0				V
Maximum DC Reverse Current @T _J = 25 °C at Rated DC Blocking Voltage @T _J =125°C	I _R				5.0	500			uA
I ² t Rating for fusing (t<8.3ms)	I ² t				166				A ² S
Typical Junction Capacitance per element (Note 1)	C _J				60				pF
Typical Thermal Resistance (Note 2)	R _{θJC}				2.2				°C/W
Operating Temperature Range	T _J				-40 to +125				°C
Storage Temperature Range	T _{STG}				-40 to +125				°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.